The invention claimed is:

1. A communication method, comprising the steps of:

encoding a pilot signal using a plurality of codes to produce a plurality of encoded pilot signals, the plurality of codes having at least a first and a second code where each of the plurality of codes are different, and the plurality of encoded pilot signals having at least a first and a second encoded pilot signal; and

transmitting each of the plurality of encoded pilot signals on a different antenna.

2. The method of claim 1, wherein the plurality of encoded pilot signals are transmitted substantially simultaneously.

3. The method of claim 1, wherein the plurality of codes are orthogonal.

4. The method of claim 3, wherein the plurality of codes are Walsh codes.

5. The method of claim 3, wherein the plurality of encoded pilot signals are transmitted substantially simultaneously.

6. A communication method, comprising the steps of:

encoding a pilot signal using a first code to produce a first encoded pilot signal;

encoding the pilot signal using a second code to produce a second encoded pilot signal, where the first and second codes are different; and

transmitting the first and second encoded pilot signals on different antennas.

7. The method of claim 6, wherein the first and second encoded pilot signals are transmitted substantially simultaneously.

8. The method of claim 6, wherein the first and second codes are orthogonal.

9. The method of claim 8, wherein the first and second codes are Walsh codes.

10. The method of claim 8, wherein the first and second encoded pilot signals are transmitted substantially simultaneously.

11. A communication method, comprising the steps of:

encoding a carrier signal using a plurality of codes to produce a plurality of encoded carrier signals, the plurality of codes having at least a first and a second code where each of the plurality of codes are different, and the plurality of encoded carrier signals having at least a first and a second encoded carrier signal; and

transmitting each of the plurality of encoded carrier signals on a different antenna.

12. The method of claim 11, wherein the plurality of encoded carrier signals are transmitted substantially simultaneously.

13. The method of claim 11, wherein the plurality of codes are orthogonal.

14. The method of claim 13, wherein the plurality of codes are Walsh codes.

15. The method of claim 13, wherein the plurality of encoded carrier signals are transmitted substantially simultaneously.

16. A communication method, comprising the steps of:

encoding a carrier signal using a first code to produce a first encoded carrier signal;

encoding the carrier signal using a second code to produce a second encoded carrier signal, where the first and second codes are different; and

transmitting the first and second encoded carrier signals on different antennas.

17. The method of claim 16, wherein the first and second encoded carrier signals are transmitted substantially simultaneously.

18. The method of claim 16, wherein the first and second codes are orthogonal.

19. The method of claim 18, wherein the first and second codes are Walsh codes.

20. The method of claim 18, wherein the first and second encoded carrier signals are transmitted substantially simultaneously.